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United States Department of Agriculture,

DIVISION OF PUBLICATIONS—Circular 16.

JOS. A. ARNOLD, Editor and Chief.

WASHINGTON, D. C., December 7, 1911.

PUBLICATIONS OF THE BUREAU OF ENTOMOLOGY.

NOTE.—Application for publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of some of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants are referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applicants are urgently requested to ask only for those publications in which they are particularly interested. The department can not undertake to supply complete sets, nor is it allowable to send more than one copy of any publication to an applicant.

REPORTS.

Report of the Entomologist for the year 1908.

Same, 1909.

Same, 1910.

Same, 1911.

BULLETINS (OLD SERIES).

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Bureau of Entomology, Bulletin, O. S., No. 6."]

- Bul. 6. The Imported Elm Leaf-beetle: Its Habits and Natural History and Means of Counteracting its Injuries.
- 7. The Pediculi and Mallophaga Affecting Man and the Lower Animals.
- 22. Reports of Observations and Experiments in the Practical work of the Division, Made under the Direction of the Entomologist.
- 24. The Bollworm of Cotton: A Report of Progress in a Supplementary Investigation of this Insect.
- 25. Destructive Locusts: A Popular Consideration of a Few of the More Injurious Locusts (or "Grasshoppers") of the United States, Together with the Best Means of Destroying them.
- 29. Report on the Bollworm of Cotton.
- 31. Catalogue of the Exhibit of Economic Entomology at the World's Columbian Exposition, Chicago, Ill., 1893.

BULLETINS (NEW SERIES).

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Bureau of Entomology, Bulletin, N. S., No. 3."]

- Bul. 3. The San Jose Scale: Its Occurrences in the United States, with a Full Account of its Life History and the Remedies to be Used Against It.
- 4. The Principal Household Insects of the United States.
- 13. Recent Laws Against Injurious Insects in North America, Together with Laws Relative to Foul Brood, 1898.
- 16. The Hessian Fly in the United States.
- 22. Some miscellaneous Results of the Work of the Division of Entomology.
- 24. A List of Works on North American Entomology.

- Bul. 26. Proceedings of the Twelfth Annual Meeting of the Association of Economic Entomologists.
28. Insect Enemies of Spruce in the Northeast.
29. The Fall Army Worm and Variegated Cutworm.
31. Proceedings of the Thirteenth Annual Meeting of the Association of Economic Entomologists.
32. Insect Enemies of the Pine in the Black Hills Forest Reserve. An Account of Results of Special Investigations, with Recommendations for Preventing Losses.
33. Some Insects Injurious to Vegetable Crops.
34. The Principal Insects Liable to be Distributed on Nursery Stock.
36. An Index to Bulletins Nos. 1-30 (new series) (1896-1901) of the Division of Entomology.
37. Proceedings of the Fourteenth Annual Meeting of the Association of Economic Entomologists.
38. Some Miscellaneous Results of the Work of the Division of Entomology.
40. Proceedings of the Fifteenth Annual Meeting of the Association of Economic Entomologists.
42. Some Insects Attacking the Stems of Growing Wheat, Rye, Barley, and Oats, with Methods of Prevention and Suppression.
43. A Brief Account of the Principal Insect Enemies of the Sugar Beet.
44. Some Miscellaneous Results of the Work of the Division of Entomology.
46. Proceedings of the Sixteenth Annual Meeting of the Association of Economic Entomologists.
47. Catalogue of Exhibit of Economic Entomology at the Louisiana Purchase Exposition, St. Louis, Missouri, 1904.
48. Catalogue of Exhibits of Insect Enemies of Forests and Forest Products at the Louisiana Purchase Exposition, St. Louis, Missouri, 1904.
49. Report on the Habits of the Kelep, or Guatemalan Cotton-boll-weevil Ant.
52. Proceedings of the Seventeenth Annual Meeting of the Association of Economic Entomologists.
53. Catalogue of the Exhibit of Economic Entomology at the Lewis and Clark Centennial Exposition, Portland, Oreg., 1905.
54. Some Miscellaneous Results of the Work of the Bureau of Entomology.
56. The Black Hills Beetle, with Further Notes on its Distribution, Life History, and Methods of Control.
58. Some Insects Injurious to Forests. Part 3.—Additional Data on the Locust Borer.
 Same, Part 4.—The Southern Pine Sawyer.
 Same, Part 5.—Some Insects Injurious to Forests.
59. Proliferation as a Factor in the Natural Control of the Mexican Cotton Boll Weevil.
60. Proceedings of the Eighteenth Annual Meeting of the Association of Economic Entomologists.
61. The Laws in Force Against Injurious Insects and Foul Brood in the United States.
62. The San Jose or Chinese Scale.
63. Papers on the Cotton Boll Weevil and Related and Associated Insects.
 Same, Part 1.—Hibernation and Development of the Cotton Boll Weevil.
 Same, Part 2.—Notes on the Biology of Certain Weevils Related to the Cotton Boll Weevil.
 Same, Part 3.—An Ant Enemy of the Cotton Boll Weevil.
 Same, Part 5.—Notes on the Pepper Weevil.
 Same, Supplement.—Contents and Index.

- Bul. 64. Some Miscellaneous Results of the Work of the Bureau of Entomology.
 Part 3.—Notes on "Punkies."
 Same, Part 4.—An Injurious North American Species of Apion, with Notes on Related Forms.
 Same, Part 5.—Insects Injurious to the Loco Weed.
 Same, Part 6.—The Greenhouse Thrips.
 Same, Part 7.—New Breeding Records of the Coffee-bean Weevil.
 Same, Part 8.—The Woolly White-fly: A New Enemy of the Florida Orange.
 Same, Part 9.—Notes on a Colorado Ant.
 Same, Part 10.—The Pecan Cigar Case Bearer.
 Same, Supplement.—Contents and Index.
65. The Tobacco Thrips, a New and Destructive Enemy of Shade-grown Tobacco.
66. Some Insects Injurious to Truck Crops.
 Same, Part 1.—The Asparagus Miner. Notes on the Asparagus Beetles.
 Same, Part 4.—The Leafhoppers of the Sugar Beet, and Their Relation to the Curly-leaf Condition.
 Same, Part 5.—The Semitropical Army Worm.
 Same, Part 6.—The Hop Flea-beetle.
 Same, Supplement.—Contents and Index.
67. Proceedings of the Nineteenth Annual Meeting of the Association of Economic Entomologists.
68. Papers on Deciduous Fruit Insects and Insecticides. Part 1.—The Pear Thrips.
 Same, Part 4.—The Lesser Peach Borer.
 Same, Part 7.—Demonstration Spraying for the Codling Moth.
 Same, Part 9.—The Peach-tree Barkbeetle.
 Same, Supplement.—Contents and Index.
69. The Chinch Bug.
70. Report of the Meeting of Inspectors of Apiaries, San Antonio, Tex., November 12, 1906.
71. The Periodical Cicada.
72. Information Concerning the North American Fever Tick, with Notes on Other Species.
74. Some Factors in the Natural Control of the Mexican Cotton Boll Weevil.
75. Miscellaneous Papers on Apiculture. Part 1.—Production and Care of Extracted Honey. Methods of Honey Testing for Bee Keepers.
 Same, Part 2.—Wax Moths and American Foul Brood.
 Same, Part 3.—Bee Diseases in Massachusetts.
 Same, Part 4.—The Relation of the Etiology (Cause) of Bee Diseases to the Treatment.
 Same, Supplement.—Contents and Index.
76. Fumigation for the Citrus White Fly, as Adapted to Florida Conditions.
77. Hibernation of the Mexican Cotton Boll Weevil.
78. Economic Loss to the People of the United States through Insects that Carry Disease.
79. Fumigation Investigations in California.
80. Papers on Deciduous Fruit Insects and Insecticides. Part 1.—The Codling Moth in the Ozarks.
 Same, Part 4.—The Pear Thrips and Its Control.
 Same, Part 5.—On the Nut-feeding Habits of the Codling Moth.
 Same, Part 7.—The One-spray Method in the Control of the Codling Moth and the Plum Curculio.
 Same, Part 8.—Tests of Sprays against the European Fruit Lecanium and the European Pear Scale.

- Bul. 81. A List of Works on North American Entomology.
82. Some Insects Injurious to Truck Crops. Part 1.—The Colorado Potato Beetle in Virginia in 1908.
 Same, Part 2.—The Parsnip Leaf-miner. The Parsley Stalk Weevil. The Celery Caterpillar.
 Same, Part 3.—The Lima-bean Pod-borer. The Yellow-necked Flea-beetle.
 Same, Part 4.—The Life History and Control of the Hop Flea-beetle.
 Same, Part 5.—Biologic and Economic Notes on the Yellow-bear Caterpillar.
 Same, Part 6.—Notes on the Cucumber Beetles. Biologic Notes on Species of *Diabrotica* in Southern Texas.
83. Practical Information on the Scolytid Beetles. Part 1.—Barkbeetles of the Genus *Deutroctonus*.
84. Fumigation of Apples for the San Jose Scale.
85. Papers on Cereal and Forage Insects. Part 1.—The Lesser Clover-leaf Weevil.
 Same, Part 7.—The Smoky Crane-fly.
 Same, Part 8.—The Cowpea Curculio.
 Same, Supplement.—Contents and Index.
86. Plant-bugs Injurious to Cotton Bolls.
87. Report on the Field Work Against the Gipsy Moth and the Brown-tail Moth.
88. Preventive and Remedial Work Against Mosquitoes.
89. The Grape Root-worm, with Especial Reference to Investigations in the Erie Grape Belt from 1907 to 1909.
90. Hydrocyanic-acid Gas Fumigation in California. Part 1.—Fumigation of Citrus Trees.
92. White Flies Injurious to Citrus in Florida.
93. The Sugar-cane Insects of Hawaii.
94. Insects Injurious to Forests and Forest Products. Part 1.—Damage to Chestnut Telephone and Telegraph Poles by Wood-boring Insects.
95. Papers on Cereal and Forage Insects. Part 1.—The Timothy Stem-borer. Same, Part 2.—The Maize Billbug.
96. Papers on Insects Affecting Stored Products. Part 2.—The Broad-nosed Grain Weevil. The Long-headed Flour Beetle.
 Same, Part 3.—The Lesser Grain-borer. The Larger Grain-borer.
97. Papers on Deciduous Fruit Insects and Insecticides. Part 1.—Spraying Experiments Against the Grape Leafhopper in the Lake Erie Valley.
 Same, Part 2.—Life History of the Codling Moth and its Control on Pear in California.
 Same, Part 3.—Vineyard Spraying Experiments Against the Rose Chafer in the Lake Erie Valley.
 Same, Part 5.—Notes on the Peach and Plum Slug.
99. Papers on Insects Injurious to Citrus and Other Subtropical Fruits. Part 1.—The Orange Thrips.
101. *Calosoma Sycophanta*: Its Life History, Behavior, and Successful Colonization in New England.
104. The Fig Moth.
105. The Rocky Mountain Spotted Fever Tick, with Special Reference to the Problem of Its Control in the Bitter Root Valley in Montana.
106. The Life History and Bionomics of Some North American Ticks.
109. Papers on Insects Affecting Vegetables. Part 1.—The Southern Beet Webworm.
 Same, Part 2.—The Hawaiian Beet Webworm.

BULLETINS (TECHNICAL SERIES).

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Bureau of Entomology, Bulletin, Tech. Ser., No. 3."]

- Bul. 3. Revision of the Nematinae of North America, a Subfamily of Leaf-feeding Hymenoptera of the Family Tenthredinidae.
9. The Life History of Two Species of Plant-lice Inhabiting Both the Witch-hazel and Birch.
10. The Social Organization and Breeding Habits of the Cotton-protecting Kelep of Guatemala.
12. Miscellaneous Papers. Part 1.—Catalogue of Recently Described Coccidae. Same, Part 2.—Habits and Life Histories of Some Flies of the Family Tabanidae. Same, Part 3.—A Contribution to Our Knowledge of the Thysanoptera of California. Same, Part 4.—New Genera and Species of Aphelininae, with a Revised Table of Genera. Same, Part 5.—The More Important Aleyrodidae Infesting Economic Plants, with Description of a New Species Infesting the Orange. Same, Part 6.—A Record of Results from Rearings and Dissections of Tachinidae. Same, Part 7.—The Orange Thrips. Same, Part 8.—Biological Studies on Three Species of Aphididae. Same, Part 9.—A New Genus of Aleyrodidae, with Remarks on *Aleyrodes nubifera* Berger, and *Aleyrodes citri* Riley and Howard.
13. A Revision of the Tyroglyphidae of the United States.
15. A Revision of the Ixodoidea, or Ticks, of the United States.
16. Papers on Coccidae or Scale Insects. Part 1.—The National Collection of Coccidae. Same, Part 2.—New Species of Diaspine Scale Insects. Same, Part 3.—Catalogue of Recently Described Coccidae—II. Same, Part 4.—Catalogue of Recently Described Coccidae—III.
17. Contributions Toward a Monograph of Scolytid Beetles. Part 1.—Genus *Dendroctonus* (with bibliographies).
19. Technical Results from the Gipsy Moth Parasite Laboratory. Part 1.—The Parasites Reared or Supposed to have been Reared from the Eggs of the Gipsy Moth. Same, Part 2.—Descriptions of Certain Chalcidoid Parasites. Same, Part 3.—Investigations into the Habits of Certain Sarcophagidae.
20. Technical Papers on Miscellaneous Forest Insects. Part 1.—Contributions Toward a Monograph of the Bark-Weevils of the Genus *Pissodes*. Same, Part 2.—The Genotypes of the Sawflies and Woodwasps, or the Superfamily Tenthredinoidea. Same, Part 3.—A Revision of the Powder-post Beetles of the Family Lyctidae of the United States and Europe. Same, Part 4.—Studies in the Sawfly Genus *Hoplocampa*.
21. Synopsis, Catalogue, and Bibliography of North American Thysanoptera, with Descriptions of New Species.

CIRCULARS.

[In applying for these circulars the name of the bureau as well as the number of the circular should be given, as "Bureau of Entomology, Circular No. 2."]

- Circ. 2. Hop Plant-Louse and Remedies to be Used Against It.
5. The Carpet Beetle, or "Buffalo Moth."

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- Circ. 6. The Mexican Cotton-boll Weevil. Spanish edition.
 7. The Pear-tree Psylla.
 8. The Imported Elm Leaf-beetle.
 9. Cankerworms.
 12. The Hessian Fly.
 14. The Mexican Cotton-boll Weevil. Spanish edition.
 16. The Larger Corn Stalk-borer.
 20. The Woolly Aphis of the Apple.
 21. The Strawberry Weevil.
 23. The Buffalo Tree-hopper.
 24. The Two-lined Chestnut Borer.
 26. The Pear Slug.
 28. The Box-elder Plant-bug.
 29. The Fruit-tree Bark-beetle.
 31. The Striped Cucumber Beetle.
 32. The Larger Apple-tree Borer.
 34. House Ants.
 36. The True Clothes Moths.
 37. The Use of Hydrocyanic-acid Gas for Fumigating Greenhouses and Cold Frames.
 38. The Squash-vine Borer.
 39. The Common Squash Bug.
 43. The Pea Aphis.
 46. Hydrocyanic-acid Gas Against Household Insects.
 47. The Bedbug.
 48. The House Centipede.
 49. The Silver Fish.
 50. The White Ant.
 51. Cockroaches.
 53. The Yellow-winged Locust.
 54. The Peach-tree Borer.
 56. The Most Important Step in the Cultural System of Controlling the Boll Weevil.
 57. The Greenhouse White Fly.
 59. The Corn Root-worms.
 60. The Imported Cabbage Worm.
 61. Black Check in Western Hemlock.
 63. Root-maggots and How to Control Them.
 64. The Cottony Maple Scale.
 66. The Joint-worm.
 68. The Tobacco Thrips and Remedies to Prevent "White Veins" in Wrapper Tobacco.
 69. Some Insects Affecting the Production of Red Clover Seed.
 70. The Hessian Fly.
 72. Key to the Known Larvæ of the Mosquitoes of the United States.
 73. The Plum Curculio.
 75. Requirements to be Complied with by Nurserymen or Others who Make Interstate Shipments of Nursery Stock.
 77. Harvest Mites, or "Chiggers."
 79. Brood Diseases of Bees.
 80. The Melon Aphis.
 81. The Aphides Affecting the Apple.
 83. The Locust Borer and Methods for Its Control.

- Circ. 87. The Colorado Potato Beetle.
 88. The Terrapin Scale.
 90. The White-pine Weevil.
 92. Mites and Lice on Poultry.
 93. The Spring Grain Aphis or So-called "Green Bug."
 94. The Cause of American Foul Brood.
 95. The Most Important Step in the Control of the Boll Weevil.
 Same. French Edition.
 96. The Catalpa Sphinx.
 98. The Apple-tree Tent Caterpillar.
 99. The Nut Weevils.
 100. Index to Circulars 1 to 100.
 101. The Apple Maggot or "Railroad Worm."
 102. The Asparagus Beetles.
 103. The Harlequin Cabbage Bug.
 104. The Common Red Spider.
 105. The Rose Slugs.
 106. The Wheat Straw-worm.
 107. What Can be Done in Destroying the Cotton Boll Weevil During the Winter.
 108. House Fleas.
 109. The Leopard Moth.
 111. Preparations for Winter Fumigation for the Citrus White Fly.
 112. Control of the Mediterranean Flour Moth by Hydrocyanic-acid Gas Fumigation.
 113. The Chinch Bug.
 114. The Euonymus Scale.
 115. The Horn Fly.
 116. The Larger Corn Stalk-borer.
 118. A Predaceous Mite Proves Noxious to Man.
 119. The Clover Root-borer.
 120. Control of the Brown-rot and Plum Curculio on Peaches.
 121. The Oyster-shell Scale and the Scurfy Scale.
 123. Methods of Controlling Tobacco Insects.
 125. Insects Which Kill Forest Trees.
 126. Insects Injurious to the Wood of Living Trees.
 128. Insect Injuries to Forest Products.
 129. Insects in Their Relation to the Reduction of Future Supplies of Timber,
 and General Principles of Control.
 130. The Oak Pruner.
 131. How to Control the Pear Thrips.
 133. The Alfalfa Caterpillar.
 134. Damage to Telephone and Telegraph Poles by Wood-boring Insects.
 135. The Asparagus Miner.
 136. The Distribution of the Rocky Mountain Spotted-fever Tick.
 137. The Alfalfa Weevil.
 138. The Occurrence of Bee Diseases in the United States.
 139. Damage to Sugar Cane in Louisiana by the Sugar-cane Borer.
 140. An Annotated Bibliography of the Mexican Cotton Boll Weevil.
 141. The Mango Weevil.

MISCELLANEOUS.

[In applying for these publications the bureau and the full title of the pamphlet should be given.]

- Bibliography of the More Important Contributions to American Economic Entomology. Part 5.—The More Important Writings of Government and State Entomologists and of Other Contributors to the Literature of American Economic Entomology.
- Same. Part 6.—The More Important Writings Published between June 30, 1888, and December 30, 1896.
- Same. Part 7.—The More Important Writings Published Between December 31, 1896, and January 1, 1900.
- Same. Part 8.—The More Important Writings Published Between December 31, 1899, and January 1, 1905.
- Report upon Cotton Insects.
- Catalogue of the Exhibit of Economic Entomology at the World's Industrial and Cotton Centennial Exposition, New Orleans, 1884-85.
- The Plum Plant-louse.
- A Destructive Borer Enemy of Birch Trees.
- A Partial List of the Coccidæ in Ohio.
- National Control of Introduced Insect Pests.
- Report of Committee on Nomenclature.
- The Horn Fly.
- Some Observations on the Spined Soldier Bug.
- Jarring for the Curculio on an Extensive Scale in Georgia, with a List of the Insects Caught.
- The Ox Bot in the United States.
- The Corn Root-aphis and Its Attendant Ant.
- Further Notes on the San Jose Scale.
- Report on the Mexican Cotton-boll Weevil in Texas.
- A New Coccid on Birch.
- The San Jose Scale on Dried Fruit.
- Insect Enemies of the White Pine.
- Insects Affecting the Cotton Plant.
- The Southern Grain Louse.
- The Tobacco Stalk Weevil.
- The Chestnut Weevils, with Notes on other Nut-feeding Species.
- Insect Photography.
- State and Territorial Laws Relative to Foul Brood.
- Practical Information on the Dendroctonus Enemies of North American Forests.
- The Western Pine Beetle. The Southwestern Pine Beetle. The Roundheaded Pine Beetle.
- The Southern Pine Beetle.
- The Mountain Pine Beetle. The Black Hills Beetle. The Jeffrey Pine Beetle.
- The Redwinged Pine Beetle. The Lodgepole Pine Beetle. The Allegheny Spruce Beetle. The European Spruce Beetle.
- The Black Turpentine Beetle. The Red Turpentine Beetle.
- The Arizona Pine Beetle. The Smaller Mexican Pine Beetle. The Larger Mexican Pine Beetle. The Colorado Pine Beetle.
- The Eastern Spruce Beetle. The Engelmann Spruce Beetle. The Alaska Spruce Beetle. The Sitka Spruce Beetle.
- The Eastern Larch Beetle. The Douglas Fir Beetle.

FARMERS' BULLETINS.

[The Farmers' Bulletins are a series of popular treatises issued by the Department of Agriculture. The following list includes only numbers contributed by the Bureau of Entomology and should be applied for by number, as "Farmers' Bulletin No. 99."]

- F. B. 99. Three Insect Enemies of Shade Trees.
 120. Insects Affecting Tobacco.
 127. Important Insecticides.
 155. How Insects Affect Health in Rural Districts.
 172. Scale Insects and Mites on Citrus Trees.
 178. Insects Injurious in Cranberry Culture.
 196. Usefulness of the American Toad.
 209. Controlling the Boll Weevil in Cotton Seed and at Ginneries.
 223. Miscellaneous Cotton Insects in Texas.
 264. The Brown-tail Moth and How to Control It.
 275. The Gipsy Moth and How to Control It.
 283. Spraying for Apple Diseases and the Codling Moth in the Ozarks.
 284. Insect and Fungous Enemies of the Grape East of the Rocky Mountains.
 290. The Cotton Bollworm.
 344. The Boll Weevil Problem, with Special Reference to Means of Reducing Damage.
 440. Spraying Peaches for the Control of Brown-rot, Scab, and Curculio.
 442. The Treatment of Bee Diseases.
 444. Remedies and Preventives Against Mosquitoes.
 447. Bees.
 450. Some Facts About Malaria.
 453. Danger of General Spread of the Gipsy and Brown-tail Moths Through Imported Nursery Stock.
 459. House Flies.

SEPARATE REPRINTS FROM THE YEARBOOK.

[In applying for these publications the number of the separate should be given, as "Yearbook Separate 196."]

- Ybk. Sep. 196. Smyrna Fig Culture in the United States.
 248. Experimental Work with Fungous Diseases of Grasshoppers.
 268. Some of the Principal Insect Enemies of Coniferous Forests in the United States.
 313. The United States Department of Agriculture and Silk Culture.
 355. Insect Injuries to Forest Products.
 360. The Annual Loss Occasioned by Destructive Insects in the United States.
 425. Some Recent Studies of the Mexican Cotton Boll Weevil.
 472. The Principal Injurious Insects of the Year 1907.
 480. Information about Spraying for Orchard Insects.
 531. Some of the More Important Ticks of the United States.
 537. Insect Enemies of Tobacco in the United States.
 542. Injuries to Forests and Forest Products by Roundheaded Borers.

[Cir. 16]

EXPLANATION OF ABBREVIATIONS

The following abbreviations are used in the text of the report. The full names of the institutions and individuals mentioned are given in the list of institutions and individuals on page 10. The full names of the institutions and individuals mentioned are given in the list of institutions and individuals on page 10.

1. *Acetabularia* (L.) Lamour.
2. *Alveolaria* (L.) Lamour.
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